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Date of Deposit: December 6, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D. C. 20231.

Jessica Pallach

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

fe Application of: Sporer et al.

Serial No.: 09/889,697

Filed: July 18, 2001

Title:

SYSTEM AND METHOD FOR EVALUATING THE QUALITY OF MULTI-

CHANNEL AUDIO SIGNALS

December 6, 2001

Assistant Commissioner for Patents Washington, DC 20231

TRANSMITTAL OF TRANSLATION OF THE IPER

Dear Sir:

Enclosed for the above-referenced patent are the following:

- 1. Translation of the International Preliminary Examination Report; and
- 2. Return Postcard.

The Commissioner is authorized to charge any additional fees, or credit any overpayments, to Deposit Account No. 07-1445 (Order No. SCHO0057). A copy is enclosed for this purpose.

Respectfully submitted,

Michael A. Glenn

Reg. No. 30,176

Customer No. 22862

PCT

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

SCHOPPE, Fritz Schoppe, Zimmermann & Stöckeler Postfach 71 08 67 D-81458 München ALLEMAGNE

-		Date of mailing (day/month/year) 26 September 2001 (26.09.01)	
FICATION	IMPORTANT NOTIFICATION	Applicant's or agent's file reference FH991206PCT	
· ·	International filing date (day/month/year) 15 December 1999 (15.12.99)	International application No. PCT/EP99/09979	
9		PCT/EP99/09979	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

EP

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Pascal Pirio

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

Translation



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FH991206PCT	FOR FURTHER ACTIO		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)		
International application No. PCT/EP99/09979	International filing date (date 15 December 1999)	•	Priority date (day/month/year) 21 January 1999 (21.01.99)		
International Patent Classification (IPC) or no H04R 29/00	ational classification and IPC				
Applicant FRAUNHOFER-GESELLSCHA	FT ZUR FÖRDERUNG	G DER ANGE	WANDTEN FORSCHUNG E.V.		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of	5 sheets, inclu	uding this cover s	heet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of sheets.					
3. This report contains indications relating to the following items:					
Basis of the report					
II Priority					
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of inve	IV Lack of unity of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in the					
VIII Certain observations on the international application					
		-			
Date of submission of the demand	Dat	e of completion o	of this report		
18 August 2000 (18.08	3.00)	10 No	vember 2000 (10.11.2000)		
Name and mailing address of the IPEA/EP	Aut	horized officer			
Facsimile No.	Tele	ephone No.			

Form PCT/IPEA/409 (cover sheet) (July 1998)

25

International application No.

PCT/EP99/09979

I. Basis	of the report		
1. With	regard to the elements	of the international application:*	
	the international applic	cation as originally filed	
\boxtimes	the description:		
	pages	1-14	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter of	
\boxtimes	the claims:		
د ک	pages	1-21	, as originally filed
	pages	, as amended (together with	
	Dagges		, filed with the demand
	pages	, filed with the letter of	
\boxtimes	the drawings:		
_	_	1/3-3/3	, as originally filed
	pages		, filed with the demand
		, filed with the letter of	
	the sequence listing part		:
لــا		of the description.	as originally filed
			, as originally filed , as originally filed
	· · — —	, filed with the letter of	
3. Wit	the language of a trans the language of public the language of the tr or 55.3). h regard to any nucle iminary examination was contained in the interr filed together with the furnished subsequently	ble or furnished to this Authority in the following language slation furnished for the purposes of international search (under Rule 22 cation of the international application (under Rule 48.3(b)). ranslation furnished for the purposes of international preliminary example and/or amino acid sequence disclosed in the international scarried out on the basis of the sequence listing: national application in written form. It international application in computer readable form. By to this Authority in written form.	mination (under Rule 55.2 and/
	The statement that international application	the subsequently furnished written sequence listing does not go on as filed has been furnished. The information recorded in computer readable form is identical to the sequence of the sequence of the subsequence of the sub	·
4.	the description the claims, Nos	e resulted in the cancellation of: , pages s sheets/fig	
5	beyond the disclosure	established as if (some of) the amendments had not been made, since the as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
in ti and	his report as "originall _. 70.17).	ave been furnished to the receiving Office in response to an invitation by filed" and are not annexed to this report since they do not co	ntain amendments (Rule 70.16
** Any	replacement sheet conta	ining such amendments must be referred to under item 1 and annexed to	o this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-21	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-21	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: WO-A-97/25834 (VIRTUAL LISTENING SYSTEMS INC;
TUCKER TIMOTHY J (US); GREEN DAVID) 17 July 1997
(1997-07-17),

D2: EP-A-0 165 733 (PIONEER ELECTRONIC CORP) 27
December 1985 (1985-12-27).

Claim 1

The method according to D1 pertains to the processing of a multi-channel signal. Said document discloses neither a device for converting the audio test signal according to the present Claim 1 nor a device for assessing the quality of the audio test composite signals while taking into consideration the audio reference composite signals to provide an indication of the quality of the audio test signal.

Document D2 discloses a method and a device for measuring and correcting acoustic characteristics in a sound field.



Said document shows neither a device for converting the audio test signal into a first and a second reference composite signal according to the present Claim 1 nor a device for assessing the quality of the audio test composite signals while taking into consideration the audio reference composite signals to provide an indication of the quality of the audio test signal.

The subject matter of the present Claim 1 differs from that of the prior art substantially in that the claimed device has an apparatus for transforming the audio test signal into a first and a second reference composite signal (see paragraph 2 of the present Claim 1) and an apparatus for assessing the quality of the audio test composite signals while taking into consideration the audio reference composite signals to provide an indication of the quality of the audio test signal.

Since these features are neither known nor derivable from the prior art, Claim 1 fulfils the requirements of PCT Article 33(2) and (3).

Claims 2 to 13

Dependent Claims 2 to 13 pertain to further embodiments of the device according to Claim 1.

Therefore, in combination with Claim 1, these claims likewise fulfil the requirements of PCT Article 33(2) and (3).

Claim 14

The conclusion pertaining to device Claim 1 readily applies to method Claim 14.

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Therefore, Claim 14 likewise fulfils the requirements of PCT Article 33(2) and (3).

Claims 15-21

Dependent Claims 15 to 21 pertain to further steps of the method according to Claim 14.

Therefore, in combination with Claim 14, these claims likewise fulfil the requirements of PCT Article 33(2) and (3).

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PCT/EP 99/09979

VII. C	ertain	defects	in the	international	application
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The following defects in the form or contents of the international application have been noted:

Contrary to PCT Rule 5.1(a) (ii), the description does not cite D1 or D2 or indicate the relevant prior art disclosed therein.

There is a typographical error in the third paragraph on page 1 and in the second paragraph of page 2. The cited document is DE-C-196 47 399.